

## EAST Search History

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
| L1    | 19   | (capacitor same trench) and aberrat\$3 and pattern   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/06/06 08:04 |
| L2    | 21   | (capacitor same trench) and aberrat\$3   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/06/06 08:07 |
| L3    | 1370 | capacitor and aberrat\$3   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/06/06 08:08 |
| L4    | 61   | capacitor same aberrat\$3  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/06/06 08:08 |
| L5    | 7    | capacitor same aberrat\$3 and trench   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/06/06 10:29 |
| L6    | 305  | (capacitor with trench) same (test\$3 or examin\$3 or evaluat\$3 or estimat\$3 or check\$3 or verif\$3 or monitor\$3 or assessment or analyz\$3 or analysis)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/06/06 08:40 |
| L7    | 3    | (capacitor with trench) same (test\$3 or examin\$3 or evaluat\$3 or estimat\$3 or check\$3 or verif\$3 or monitor\$3 or assessment or analyz\$3 or analysis) and aberrat\$3                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/06/06 09:40 |
| L8    | 2    | (capacitor with trench) same (test\$3 or examin\$3 or evaluat\$3 or estimat\$3 or check\$3 or verif\$3 or monitor\$3 or assessment or analyz\$3 or analysis) and aberrat\$3 and (pattern same layout)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/06/06 09:41 |
| L9    | 3    | (capacit\$4 with trench) same (test\$3 or examin\$3 or evaluat\$3 or estimat\$3 or check\$3 or verif\$3 or monitor\$3 or assessment or analyz\$3 or analysis) and aberrat\$3 and (pattern same layout) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2006/06/06 09:41 |

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| L10 | 3  | (capacit\$4 same trench) same (test\$3 or examin\$3 or evaluat\$3 or estimat\$3 or check\$3 or verif\$3 or monitor\$3 or assessment or analyz\$3 or analysis) and aberrat\$3 and (pattern same layout)                                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/06 10:26 |
| L11 | 13 | (trench or DT) same (test\$3 or examin\$3 or evaluat\$3 or estimat\$3 or check\$3 or verif\$3 or monitor\$3 or assessment or analyz\$3 or analysis) and aberrat\$3 and (pattern same layout)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/06 09:46 |
| L12 | 9  | (trench or DT) same (test\$3 or examin\$3 or evaluat\$3 or estimat\$3 or check\$3 or verif\$3 or monitor\$3 or assessment or analyz\$3 or analysis) and aberrat\$3 and (pattern same layout same (shape or H))                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/06 09:47 |
| L13 | 9  | (trench or DT) same (test\$3 or examin\$3 or evaluat\$3 or estimat\$3 or check\$3 or verif\$3 or monitor\$3 or assessment or analyz\$3 or analysis) and aberrat\$3 and (pattern same layout same (shape or "H"))                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/06 09:54 |
| L14 | 5  | (capacitor with (deep adj trench) or DT or trench) same layout same "H" and aberrat\$4   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/06 10:22 |
| L15 | 5  | (capacitor with (deep adj trench) or DT or trench) same layout same "H" and (aberrat\$4 or unsymmetr\$4 or assymetr\$4)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/06 10:23 |
| L16 | 5  | (capacitor with (deep adj trench) or DT or trench) same layout same "H" and (aberrat\$4 or unsymmetr\$4 or asymetr\$4)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/06 10:25 |
| L17 | 3  | (capacit\$4 same trench) same (test\$3 or examin\$3 or evaluat\$3 or estimat\$3 or check\$3 or verif\$3 or monitor\$3 or assessment or analyz\$3 or analysis) and (aberrat\$4 or unsymmetr\$4 or asymetr\$4) and (pattern same layout) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/06 10:26 |
| L18 | 15 | capacitor same (aberrat\$4 or unsymmetr\$4 or asymetr\$4) and trench   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/06 10:29 |

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|-----|-----|---|---|----|----|------------------|
| L21 | 6   | (capacitor same trench) and (aberrat\$4 or unsymmetr\$4 or asymetr\$4) and (pattern same test)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/06 13:46 |
| L22 | 19  | (capacitor same trench) and (pattern same test same (length or width or distance))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/06 13:48 |
| L23 | 9   | (capacitor same trench) and (pattern same test same (length or width or distance)) and (photomask or photolithography)                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/06 13:48 |
| L24 | 14  | (capacitor same trench) and (pattern same test same (length or width or distance)) and (photomask or photolithography or lithography)                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/06 15:10 |
| L25 | 152 | ((capacitor same trench) same (layout or pattern) same (distance or length or width)) and (photomask or photolithography or lithography)                    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/06 15:11 |
| L26 | 83  | ((capacitor same trench) same (layout or pattern) same (distance or length or width)) same (photomask or photolithography or lithography or mask)           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/06 15:11 |
| L27 | 69  | ((capacitor with trench) same (layout or pattern) same (distance or length or width)) same (photomask or photolithography or lithography or mask)           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/06 15:21 |
| L28 | 3   | ((capacitor with trench) same (layout or pattern) same (distance or length or width) same pair) same (photomask or photolithography or lithography or mask) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/06 15:33 |
| L29 | 13  | ((capacitor with trench) same (layout or pattern) same (distance or length or width) same pair) and (photomask or photolithography or lithography or mask)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/06 15:33 |
| S1  | 23  | (lens near3 aberration near3 effect) and "716"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/05 15:21 |

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|     |   |  |   |    |    |                  |
|-----|---|--|---|----|----|------------------|
| S2  | 5 | (lens near3 aberration near3 effect) and (test with pattern) and "716"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/05 15:27 |
| S3  | 2 | "20050229147"  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/05 15:25 |
| S4  | 1 | (lens near3 aberration near3 effect) and (test same pattern) and ((deep adj2 trench) same capacit\$4) and "716"/\$.ccls.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/05 15:29 |
| S5  | 1 | (lens near3 aberration near3 effect) and test and ((deep adj2 trench) same capacit\$4) and "716"/\$.ccls.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/05 15:29 |
| S6  | 1 | (lens near3 aberration near3 effect) and (test\$3 or verif\$3 or check\$3 or monitor\$3 or analysis or analyz\$3 or estimat\$3 or evaluat\$3 or assessment or examin\$3) and (((deep adj2 trench) or DT) same capacit\$4) and "716"/\$.ccls. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/05 15:44 |
| S7  | 1 | (fabricat\$3 same (capacitor with (DT or (deep adj2 trench)))) and aberrat\$3 and COMA and ((S3 or three) adj foil)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/05 15:46 |
| S8  | 1 | (fabricat\$3 same capacitor same trench) and aberrat\$3 and COMA and ((S3 or three) adj foil)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/05 15:46 |
| S9  | 1 | (fabricat\$3 same capacitor same trench) and aberrat\$3 and ((S3 or three) adj foil)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/05 15:47 |
| S10 | 8 | (fabricat\$3 same capacitor same trench) and aberrat\$3  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/05 16:01 |

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|     |    |  |   |    |    |                  |
|-----|----|--|---|----|----|------------------|
| S11 | 15 | ((fabricat\$3 or manufactur\$3) same capacitor same trench) and aberrat\$3                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/05 16:18 |
| S12 | 13 | ((fabricat\$3 or manufactur\$3) same capacitor same trench) and aberrat\$3 and pattern                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/05 16:02 |
| S13 | 1  | "6163376".PN.  | USPAT;<br>USOCR   | OR | ON | 2006/06/05 16:16 |
| S14 | 2  | ((fabricat\$3 or manufactur\$3) same capacitor same trench) and aberrat\$3 and (test near3 area)               | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/05 16:19 |
| S15 | 2  | ((fabricat\$3 or manufactur\$3) same capacitor same trench) and aberrat\$3 and ((test near3 area) with layout) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/05 16:20 |
| S16 | 13 | ((fabricat\$3 or manufactur\$3) same capacitor same trench) and aberrat\$3 and pattern                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2006/06/06 10:34 |


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[Electron Devices Meeting, 2001. IEDM Technical Digest 2-5 Dec. 2001 Page\(s\):18.7.1 - 18.7.4](#)  
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